

enclosed in payment of the fee therefor. The Commissioner is hereby authorized to charge any additionally required fee for the extension, entry and consideration of the amendment, or any other fee occasioned by this paper, or credit any overpayment in such fees, to Deposit Account No. 50-0320.

**AMENDMENT**

Kindly amend the application, without prejudice, without admission, without surrender of subject matter, and without any intention of creating any estoppel as to equivalents as follows:

**IN THE CLAIMS:**

*sub  
Dv*

*C/K*

1. (Amended) A process for producing an anti-oxidant in a medium which medium comprises a plant or part thereof, and which process comprises expressing in the plant or part thereof a recombinant enzyme which acts on a glucan substrate present in the medium and/or the component or part thereof, to yield said anti-oxidant.
2. (Amended) The process according to claim 1, wherein the glucan comprises  $\alpha$ -1,4 links.
3. (Amended) The process according to claim 2, wherein the glucan is starch.
4. (Amended) The process according to claim 1, wherein the enzyme is a glucan lyase.
5. (Amended) The process according to claim 4, wherein the enzyme is an  $\alpha$ -1,4-glucan lyase.
6. (Amended) The process according to claim 5, wherein the enzyme is any one of the sequences shown as SEQ ID NOs 1-6, or a variant, homologue or fragment thereof.
7. (Amended) The process according to claim 6, wherein the enzyme is any one of the sequences shown as SEQ ID NOs 1-6.
8. (Amended) The process according to claim 4, wherein the enzyme is encoded by a nucleotide sequence comprising any one of the sequences shown as SEQ ID NOs 7-12, or a variant, homolog or fragment thereof.

*Sub D2*  
9. (Amended) The process according to claim 8, wherein the enzyme is encoded by a nucleotide sequence having any one of the sequences shown as SEQ ID NOs 7-12.

10. (Amended) The process according to claim 1, wherein the anti-oxidant is produced in the plant component, or part thereof, and is then released into the medium.

11. (Amended) The process according to claim 1, wherein the anti-oxidant is anhydrofructose.

12. (Amended) The process according to claim 11, wherein the anti-oxidant is 1,5-D-anhydrofructose.

*C*  
*Cont*  
13. (Amended) The process according to claim 1, wherein the medium, is, or is used in the preparation of, a foodstuff.

14. (Amended) The process according to claim 13, wherein the foodstuff is a beverage.

15. (Amended) The process according to claim 14, wherein the beverage is an alcoholic beverage.

16. (Amended) The process according to claim 14, wherein the beverage is a wine.

17. (Amended) The process according to claim 1, wherein the plant is all or part of a grape.

18. (Amended) The process according to claim 17, wherein the plant is all or part of a grape.

19. (Amended) Method of imparting into a medium an anti-oxidant comprising the steps of adding into the medium at least one component which is a plant or part thereof, wherein the anti-oxidant is anhydrofructose, and wherein the anhydrofructose is prepared *in situ* in the medium.

20. (Amended) Method of imparting or improving stress tolerance in a plant, comprising administering anhydrofructose, wherein the anhydrofructose is prepared *in situ* in the plant.

*Sub D3*  
21. (Amended) Method of imparting or improving the transformation of a grape, comprising administering anhydrofructose, wherein the anhydrofructose is prepared *in situ* in the grape.

*C /  
Cont*

22. (Amended) Method of imparting or improving stress tolerance in a plant, comprising administering glucan lyase, wherein the glucan lyase is prepared *in situ* in the plant.

23. (Amended) Method of imparting or improving the transformation of a grape, comprising administering glucan lyase, wherein the glucan lyase is prepared *in situ* in the grape.

24. (Amended) Method of imparting or improving stress tolerance in a plant, comprising administering a nucleotide sequence coding for a glucan lyase, wherein the nucleotide sequence is expressed *in situ* in the plant.

25. (Amended) Method of imparting or improving the transformation of a grape, comprising administering a nucleotide sequence coding for a glucan lyase, wherein the nucleotide sequence is expressed *in situ* in the grape.

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